

ABSTRACT OF THE DISCLOSURE

A dipole antenna (linearly-polarized antenna) is housed in a lower casing and a patch antenna (circularly-polarized antenna) is housed in an upper casing. The upright position of the upper casing, which is supported above the upper casing, can be changed. Thus, the effect of polarization diversity can be expected in addition to the effect of spatial diversity, so that the susceptibility to multipath influence is reduced. Also, an appropriate adjustment of the direction of the patch antenna allows the patch antenna to perform signal transmission to and/or reception from above and/or below which cannot be performed by the dipole antenna.